



January 14, 2015

Revised Copy

UPONOR
MARY KIMLINGER
5925 148TH STREET WEST
APPLE VALLEY MN 55124

Re: Description: PEX PIPE, ALTERNATE PLUMBING SYSTEM
Manufacturer: UPONOR
Product Name: UPONOR PEX TUBING AND PROPEX FITTINGS
Model Number(s): 1/2, 3/4, 1, 1^{1/4}, 1^{1/2}, 2, 2^{1/2} AND 3" PEX PIPE AND ASSOCIATED PROPEX FITTINGS
Product File No: 20140352

The specifications and/or plans for this plumbing product have been reviewed and determined to be in compliance with chapters SPS 382 through 384, Wisconsin Administrative Code, and Chapters 145 and 160, Wisconsin Statutes.

The Department hereby issues an alternate approval to s. SPS 382.40 (7) (e) based on the Wisconsin Statutes and the Wisconsin Administrative Code. This approval is valid until the end of January 2020. This alternate approval is required because the manufacturer is seeking a maximum flow velocity that exceeds 8 feet per second (fps).

This alternate approval is contingent upon compliance with the following stipulation(s):

- This piping material may be installed for the following uses:
 1. Water services and private water mains
 2. Water distribution.
- The maximum flow velocity for this piping material is 10 fps.

Velocity can be calculated via the following formula:

$$V = 0.408 Q/D^2$$

Where:

V = water velocity (ft./sec.)
Q = flow rate (gpm)
D = inside pipe diameter (in.)

- The installer is responsible for applying water hammer arrestors as appropriate and in accordance with s. SPS 382.40 (7) (f).
- Pipe shall be installed in strict accordance the manufacturer's published instructions and the Wis. Adm. Code. Only Uponor fittings shall be used.
- The manufacturer shall maintain compliance with ASTM F876 and/or ASTM F877 for this pipe and associated fittings.

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The department is in no way endorsing this product or any advertising, and is not responsible for any situation which may result from its use.

Sincerely,

A handwritten signature in dark ink, appearing to read "Glen W. Schlueter", written over a horizontal line.

Glen W. Schlueter
Environmental Engineer - Plumbing Product Reviewer
Dept of Safety and Professional Services
Division of Industry Services
Bureau of Technical Services
(608) 267-1401 Phone
(608) 267-9723 Fax
glen.schlueter@wi.gov E-mail

FOR USE WITH UPONOR AQUAPEX PIPE AND FITTINGS ONLY
Maximum Allowable Load for Uponor Aquapex Pipe
ASTM F876 and F877; (C=163)

Pressure Loss Due to Friction (in lbs. per 100 ft. of length)		Pipe Diameter (in inches)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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Note: WSFU = means water supply fixture units.

a = See 382.40 (7) (f) 1. (max. 2 wsfu)

GPM = means gallons per minute.

FM = means predominately flushometer type water closets or syphon jet urinals.

FT = means predominately flush tank type water closets or wash down urinals.

NP = means - not permitted, velocities exceed 10 feet per second for Uponor Aquapex Pipe.

For using this table, round the calculated pressure loss due to friction to the next higher number shown. **This table may only be used for Uponor PEX pipe and Uponor fittings as approved under DSPS product file number 20140352.** Shaded area exceeds 8 fps.